

Information on Dinitro-p-Toluic Acids and Their
Derivatives, by Ad Claus, Curt Beysen, 2 pp.

GERMAN, per, Annalen der Chemie, Vol CCLXVI, 1891,
pp 224-226.

SLA Tr/1443/56

Sci - Chem
Mar 57 CTS

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Nitro-Guanidine and Amido-Guanidine, by Johannes
Thiele, 43 pp.

No 1,
GERMAN, per, Annalen der Chemie, Vol CCLXX, /1892,.

S.L.A. Fr 722/1955

Sci - Chemistry
Apr 1957 CTS/dex

50,318

The Chemistry of Cyanogens and Isocyano-
gens, by J. U. Nef.
GERMAN, per, Ann Chem, Vol 287, 1895,
pp 337-359.
NASA TT F-12,045

Sci-Chem
June 69

383,224

Traube, Wilhelm.
**ON SYNTHESIS OF NITROGEN CONTAINING COM-
POUNDS WITH THE AID OF NITRIC OXIDE. 38p**
26refs
Order from SLA \$3.60 **TT-64-160**

Trans. of [Justus Liebig's] Annalen der Chemie,
(Germany) 1898, v. 300, p. 81-128.

(Chemistry--Organic, TT, v. 12, no. 6)

TT-64-16064

I. Traube, W.

Office of Technical Services

Part II. Some Alloys of Cerium and Lanthanum, by
W. Nitschmann, H. Beck, 9 pp.

GERMAN, per, Annalen der Chemie, Vol CXXXIII, 1904,
pp 46-57. 92091B5

AEC-Tr-5677

Sci - Mat & Mat

Jul 63

236,169

Muthmann, W., Weiss, L., and Metzger, Josef.
EXPERIMENTS TO PREPARE METALS OF THE
RARE EARTHS AND EARTH ACIDS AND THE
APPLICATIONS THEREON. IV. ABOUT CALCIUM
METAL. [1963] 2p.

Order from SLA \$1.10

63-16175

Condensed trans. of excerpts from [Justus Liebig's]
Annalen der Chemie (Germany) [1905] v. 355,
p. 137-143.

DESCRIPTORS: *Calcium, Alkaline earth metals,
Reduction (Chemistry), *Potassium, *Sodium, Metals,
Aluminum, Chlorides.

(Chemistry--Inorganic, TT, v. 10, no. 6)

63-16175

I. Muthmann, W.
II. Weiss, L.
III. Metzger, J.
IV. Title: About ...

Office of Technical Services

On the Cupro-Compounds of Carbon Monoxide, by
W. Manchot, J. Newton Friend.
GERMAN, per, Annalen der Chemie, Vol 359, 1908,
100-128. P911097866
AEC ORNL-tr-1545

Sci/Chemistry
Dec 66

314,628

Copper Compounds of Ethylene and Carbon Monoxide,
by W. Manchot, et al.
GERMAN, per, Ann. Chem, Vol 370, 1909, pp 286-296.
*AEC ORNL-tr-1346

Sci/Chemistry
Oct 66

Tetraphenylhydrazine and Hexaphenylatan, by
Heinrich Wieland. FOR OFFICIAL USE ONLY

GERMAN, per, Annalen der Chemie, Vol CCCLXXXI,
1911, pp 200-216

Navy Tr 3087/APL T-280

Sci - Chem

Apr 62

190,402

Tetrabiphenylhydrazine (X. Report on Aromatic
Hydrazones), by H. Wieland, A. Susser, 13 pp.

GERMAN, per, Annalen der Chemie, No 2, 1911,
pp 217-229.

Navy Tr 3179/APL T-294

Sci - Chem

Jul 62

204,807

On the Existence of a Surface Viscosity in the
Thin Transition Layer Separating one Liquid from
Another Contiguous Fluid, by J. Boussinesq, 18 pp.
FRENCH, per, Ann de Chimie et de Physique,
Vol 29, 1913, pp 349-371.

ARM/RSIC/Tx-944-69
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Sci/Phy
Sept 69

392,198

E. Carriere

Study of Aldehyde Acids of the Succinic Series.
FRENCH, per, Annales de Chimie, Series 9, Vol 17,
1922, pp 38-132.
NTC 72-13554-07C

Nov 72

Ziegler, K., Crössmann, F., Kleiner, H.,
and Schäfer, O.
ALKALI ORGANIC COMPOUNDS. I. REACTIONS BE-
TWEEN UNSATURATED HYDROCARBONS AND
ALKALI METAL ALKYLs. [1964] 48p (figs omitted)
35refs
Order from SLA \$4.60 TT-64-14926

Trans. of [Justus Liebig's] Annalen der Chemie
(Germany) 1929, v. 473, p. 1-35.

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14926

I. Ziegler, K.
II. Crossmann, F.
III. Kleiner, H.
IV. Schäfer, O.
V. Title: Reactions...

Office of Technical Services

Ziegler, K. and Kleiner, H.
POLYMERIZATION OF UNSATURATED HYDRO-
CARBONS UNDER THE INFLUENCE OF ALKALI
METALS AND ALKALI METAL ALKYLs, III [1964]
37p (figs omitted) 7refs
Order from SLA \$3.60

TT-64-14928

Trans. of [Justus Liebigs] Annalen [der Chemie]
(West Germany) 1929, v. 473, p. 57-82.

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14928

I. Ziegler, K.
II. Kleiner, H.

Office of Technical Services

Huckel, W., Danneel, R. and others.
THE STEREOCHEMISTRY OF BICYCLIC RING
SYSTEMS. V. $\Delta^9,10$ -OCTALIN. [1962] 18p.
Order from ATS \$22.45

ATS-70P59G

Trans. of [Justus Liebig] Ann[alen der] Chem[ie]
(Germany) 1929, v. 474, p. 121-144.

DESCRIPTORS: *Stereochemistry, Molecular
structure, *Naphthalenes.

(Chemistry--Organic, TT, v. 8, no. 11)

62-17145

- I. Huckel, W.
- II. Danneel, R.
- III. ATS-70P59G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/1043-GJ

Office of Technical Services

Glycol Fission, Its Mechanism and Its Application
to Chemical Problems, by R. Griegre.

CHESMAN, R., Annales der Chemie, Vol LXII, 1933,
pp 159-166.

University of Melbourne
Trans. No. 21

Sci

May 60

115,695

Information on the Photosensitivity of Aryls -
Naphthylamine Azo Dyes, by F. Krollpfeiffer,
E. C. Mulhausen, G. Wolf, 22 pp.

GERMAN, per, Annalen der Chemie, Vol DVIII, 1934,
pp 39-51.

NIK 3-18-61

Sci - Med
May 61

150,589

Catalysis in the Polymerization of Unsaturated
Hydrocarbons by Organoalkali Compounds, by
K. Ziegler, L. Jakob, 34 pp.
GERMAN, per, Annalen der Chemie, Vol XII, No 511,
1934, pp 45-64.
Patent Office

Sci - Chem
Sept 64

266,488

The First Reaction Products of Alkali Metals on
Butadiene, by K. Ziegler, L. Jakob, 43 pp.
GERMAN, per, Annalen der Chemie, Vol XIII, No 511,
1934, pp 64-88.
Patent Office

Sci - M/M
Sept 64

267,051

The Oxidation of Double Bonds. I. The Oxidation of Endo-Cis-3, 6-Endomethylene-Delta⁴-Tetrahydrophthalic Acid, by Kurt Alder, Stephan Schneider, 15 pp.

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GERMAN, per, Annalen der Chemie, No 524, 1954;
pp 189-202, 1936.

S.L.A. No 4

Scientific - Chemistry
Jan 56 CTS/DEX

30,410

Ziegler, K., Grimm, H., and Willer, R.
[ALKALI ORGANIC COMPOUNDS]. XV. CONTROLLER
1,4-POLYMERIZATION OF BUTADIENE. [1964] 43p
(figs omitted) 10refs
Order from SLA \$4.60

TT-64-14906

Trans. of [Justus Liebig's] Annalen der Chemie
(Germany) 1939, v. 542, p. 90-122.

See also TT-64-14896.

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14906

I. Ziegler, K.
II. Grimm, H.
III. Willer, R.
IV. Title: Controller...

Office of Technical Services

On Fumaric Hydrogenase As Yellow Enzyme.
Biochemical Hydrogenation IX (1), by F. G.
Fischer, A. Roedig, K. Rauch, 63 pp.

GERMAN, per, Ann d Chem, Vol XLII, No 1/2,
1942, pp 203-242.

NIH

Scientific - ~~RESEARCH~~ Chemistry CTS/DEX

17,925

Comparative Study of Oxidation of Nickelous, Cobaltous Manganous and Ferrous Hydroxides by the Wet Process, by J. Besson, 8 pp.

GERMAN, HENRIK, ~~FRANZ~~, per, Annales de Chem, Ser 12
Vol II, Sep/Oct 1947.

S.L.A. Tr 419/1956

Sci - Chemistry

35,571

Jun 1956

Boron Alkali Metal Organic Complexes, by
Georg Wittig, Georg Kelcher and others,
17 pp.

GERMAN, Per, Annalen der Chemie, 1949,
Vol DLXIII, No 1/2, pp 110-126.

SLA 59-10X13

Sci
Oct 59
Vol 2, No 3

99, 901

The Urea Additive of Aliphatic Compounds, by
W. Schlenk.
GERMAN, per, Annalen der Chemie, Vol 565, No 3,
1949, pp 204-240.
ACSI J-3899
ID 2204058467

Sci/Chem
Apr 68

351,448

NRC-TT-1439 Uncl

A CHEMICALLY INERT GEL. Biget, Anne-Marie. Translated by D. A. Sinclair (National Research Council, Ottawa), from Ann. Chim. (Paris); (12) 5: 66-105(1950). 33p.

chemistry (physical)

ND-4 NP RC

Unlimited

Ziegler, K. and Gellert, H. G.
ALKALI ORGANIC COMPOUNDS. XVI. THERMAL
STABILITY OF LITHIUM ALKYLs. [1964] 9p 14refs
Order from SLA \$1.10
TT-64-14929

Trans. of [Justus Liebig's] Annalen [der Chemie] (West
Germany) 1950, v. 567, p. 179-184.
Another trans. is available in French from SLA m\$1.80,
ph\$1.80 in CEA-tr-A553, 25 Mar 59 [5]p.

See also TT-64-14906

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14929

I. Ziegler, K.
II. Gellert, H. G.
III. Title: Thermal...

Office of Technical Services

Investigation of the Formation of Intriles VII,
Allyl Cyanide, by P. Kurtz, 8 p.

GERMAN, per, Annalen der Chemie, 1951, Vol DLXXII,
No 1, pp 69-74

SLA 60-10136

Sci
Apr 60
Vol III, No 3

112,111

Ring Extension of Tetraphenylpyrrole, by
Richard Kuhn, Helmut Kainer. FOR OFFICIAL USE ONLY

GERMAN, per, Annalen der Chemie, Vol DLXXVIII,
No 3, 1952, pp 226-227.

Navy Tr 3077/APL T-267

ERDLP + Delvair T-1503

190,392

Sci - Chem

Apr 62

Ring Opening of Tetraphenylpyrrol, by Richard
Kuhn. FOR OFFICIAL USE ONLY

GERMAN, per, Annalen der Chemie, Vol DLXXVIII,
No 3, 1952, pp 227-229.

Navy Tr 3081/APL T-272

Sci - Chem

Apr 62

190,396

On Pyrrole Radicals, by Richard Kuhn,
Helmuth Kainer. FOR OFFICIAL USE ONLY

GERMAN, per, Annalen der Chemie, Jul-Dec
1952, pp 227-238, 577, 578.

NAVY/JHWA/PT-22-238
Navy Tr 3073/APL T-261

Sci - Chem

Apr 62

191, 230

Acyl Compounds as Acyl Compounds Rich in
Energy, by T. Wieland, G. Schneider, 19 pp.

GERMAN, per, Ann d Chem, Vol CLXX, No 2,
1953, pp 159-168.

NIH

Scientific - Chemistry
May 55 CTS

23,451

Wieland, Theodor and Motzel, Werner.
THE PRESENCE OF BUFOTENIN IN YELLOW
AMANITA MUSHROOMS. [1963] 6p (figs omitted)
15refs

Order from SLA \$1.10

TT-64-14764

Trans. of Justus Liebig's Annalen der Chemie
(West Germany) 1953, v. 581, p. 10-16.

(Chemistry--Analytical, TT, v. 11, no. 11)

TT-64-14764

I. Wieland, T.
II. Motzel, W.

Office of Technical Services

Carbonylization, by W. Reppe.
GERMAN, per, Annalen der Chemie, Vol DLXXXII,
1953, pp 1-161.
*Dept of Navy/APL/JHU J-825

Sci-Chem
Jun 66

Preparation of Thionyl Chloride, 2 pp.

GERMAN, per, Ann. Chem, Michaelis Liebigs,
No 274, pp 184-186.

S.L.A. Tr No 1878

Sci - Chemistry, organic
Apr 57

46,849

Stereo-Isomerism of 2,2' Diamino-Bis(diphenyl-ethylene), by R. Kuhn.

GERMAN, per, Annalen der Chemie, Vol DCCCII,
p 196ff.

University of Melbourne
Trans. No. 90

Sci

May 60

115, 715

Some New Addition Reactions of Azodicarboxylic
Acid Esters, by Kurt Alder, Hans Niklas, 24
pp.

GERMAN, per, Annalen der Chemie, No 585, 1954,
pp 81-96.

S. K. L. A. No 5

Scientific - Chemistry
Jan 56 CTS/DEI

30,411

Alder, Kurt and Niklas, Hans.
NEW SYNTHESIS IN THE CINNOLIN AND N-AMINO
DIENE SERIES THROUGH ADDITION OF AZODI-
CARBOXYLIC ESTER TO THE STYRENE SYSTEM.
[1961] 13p.

Order from SLA mi\$2.40, ph\$3.30

61-10819

Trans. of [Justus Liebig] Annalen [der Chemie]
(West Germany) 1954, v. 585 [no. 2] p. 97-106.

61-10819

1. Azo compounds--Chemical reactions
2. Styrenes--Chemical reactions
3. Diene compounds--Synthesis
4. Carboxylic acids--Chemical reactions

- I. Alder, K.
- II. Niklas, H.

148674

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 12)

Polymethine Dyes. I. On Cyanomethines, by
M. Strell, W. B. Braunbruck, W. F. Fuhler,
O. Euber, 34 pp.

GERMAN, per, Annalen der Chemie, No 587, (3)
1954, pp 177-194.

NIH Tr 10-13

sci - Chemistry

54, 663

Oct 57

Ziegler, Karl, Sauer, Hans, Bruns, Ludwig,
Froitzheim-Kühlhorn, Helga, and Schneider, Joseph.
ON MULTIPLE MEMBERED RING SYSTEMS. XIV.
CYCLOOLEFINS OF AVERAGE RING DIMENSIONS.
35p 50refs

Order from SLA \$3.60

TT-64-16334

Trans. of [Justus Liebig's] Annalen der Chemi
(West Germany) 1954, v. 589 [no. 2] p. 122-156.

TT-64-16334

- I. Ziegler, K.
- II. Sauer, H.
- III. Bruns, L.
- IV. Froitzheim-Kühlhorn, H.
- V. Schneider, J.
- VI. Title: Cycloolefins...

(Chemistry--Organic, TT, v. 12, no. 4)

Office of Technical Services

Reppe, Walter and others.
ETHYNYLATION, VI, [1964] 117p 48refs
Order from SLA \$9.60 TT-64-16159

Partial trans. (p. 158-224) of [Justus Liebig's]
Annalen der Chemie (West Germany) 1955, v. 596,
p. 1-224.
Another trans. of p. 158-224 is available from
K-H-\$117.00 as K-H-3858, 117p.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16159

I. Reppe, W.

Office of Technical Services

Polarographic Research on Nonaqueous Solvents:
Preliminary Studies on Anhydrous Hydrazine, by
C. Furlani.

FRENCH, per, Annali de Chimica, Vol 45, 1955,
pp 264-273.

NASA TT F-11,888

264

GOVERNMENT USE ONLY

Sci-Chem

Jan 68

348,669

Isomer Transformation of Urea in
Aqueous Solution, by O. T. Rotini et al.
ITALIAN, per, Ann. di Chimica, Vol 46,
1956, pp 440-450.
*Dept of Navy/NSA

Sci-B&M
Oct 66

Dissociation of Tetraphenylhydrazine, by V. Franzen.
FOR OFFICIAL USE ONLY
HERMAN, per, Annalen der Chemie, 1957, pp 251-256.

Navy Tr 3079/AFL T-269

Sci - Chem

lpr 62

190,394

62-16528

Reppe, W[alter] and others.
VINYLATION. [1962] 30p. (refs. omitted).
Order from SLA \$2.60 62-16528

1. Reppe, W.

Partial trans. (excerpts) of [Justus Liebig's] Annalen
der Chemie (West Germany) 1957, v. 601, no. 1/3,
p. 81-138.

A complete trans. is available from SLA ml\$3.30,
ph\$7.80 as 60-10713 [1959] 50p.

DESCRIPTORS: *Acetylenes, *Vinyl radicals, Ether,
Esters, Polymerization, Chemical reactions,
Pressure, Sulfides, Nitrogen compounds.

For abstract see Technical Translations 3: 219, 1960.

(Chemistry--Organic, TT, v. 8, no. 11)

Office of Technical Services

63-17278

Koster, Roland.
BORON COMPOUNDS. I. PREPARATION OF TRIALKYL-
BORINES (BORTRIALKYLS) AND THEIR REACTIONS
WITH OLEFINS. [1963] 21p.
Order from K-H \$21.00 K-H 9539

Trans. of [Justus] Liebigs Annalen der Chemie (West
Germany) 1958, v. 618 [no. 173] p. 31-43.
Another trans. is available from SLA ml \$2.70, ph\$4.80
as 60-14310 [1960] 21p.

DESCRIPTORS: *Boron compounds, Alkyl radicals,
Chemical reactions, *Ethylenes, Synthesis (Chemistry).

For abstract see Technical Translations 3: 705, 1960.

(Chemistry--Organic, TT, v. 10 no. 1)

- I. Koster, R.
- II. K-H-9539
- III. Title: Preparation ...
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Appel, Rolf, Büchner, Werner, and Guth, Egbert.
A CONTRIBUTION TO THE KNOWLEDGE OF THE
IMINE. I. PHOSPHINIMINES AND SULFIMINES (Zur
Kenntnis des Imins. I. Über Phosphinimine und
Sulfimine). [1961] 11p. 25 refs.
Order from SLA \$1.60

61-18637

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1958, v. 618, p. 53-58.

DESCRIPTORS: *Phosphinimines, *Sulfimines,
Chemical reactions, Imines.

The reaction of hydroxylamine-O-sulfonic acid with
triphenylphosphine yields triphenylphosphinimine,
 R_3P-NH , which can be stabilized by salification as hy-
drogen sulfate, methyl sulfate and picrate. If the reac-
tion takes place in the presence of thioethers in lieu of
phosphine, it will yield the heretofore unknown sul-
fiminines, R_2S-NH . These sulfiminines are less stable.
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-18637

- I. Appel, R.
- II. Büchner, W.
- III. Guth, E.
- IV. Title: Phosphinimines...

185462

Office of Technical Services

61-20862

Ziegler, K[arl], Köster, R[oland] and others.
NEW COMPLEX COMPOUNDS OF ALUMINUM
ALKYLS. Pt. 30 of Metallo-organic Compounds.
[1961] 14p. (introduction experimental part footnotes
omitted) 4 refs.
Order from SLA \$1.60

61-20862

Trans. of [Justus Liebigs] Ann[alen der] Chem[ie]
(West Germany) 1960, v. 629 [no. 1/3] p. 33-49.
Another trans. is available from SLA \$2.60 as
61-20453 [1961] 29p.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Chemical reactions,
*Chemical compounds; Synthesis

(Chemistry--Organic, TT, v. 7, no. 6)

I. Ziegler, K.
II. Köster, R.
III. Title: Metallo-organic...

ATS/977-6J

Office of Technical Services

Kortüm, Gustav and Braun, Walter.
PHOTOCHEMICAL REACTIONS OF ANTHRACENE
IN THE ADSORBED STATE. [1960] 15p. 13 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10201

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 632 [no. 173] p. 104-115.

The oxides and salts used as adsorbents are shown to
exert a strong catalytic effect on the reaction
$$\text{Anthracene} \xrightarrow[\text{O}_2]{\text{hv}} \text{Anthraquinone}$$

The intermediate endoperoxide state which is generally
postulated in the case of oxidation in solution probably
does not occur in reactions which take place at the
surface of powders, as shown by analogous measure-
ments with 9, 10-diphenylanthracene. With aluminum
oxide and silica gel as adsorbents, 1,4-dihydroxy-
anthraquinone (Quinizarine) is formed from anthracene
or anthraquinone in continuation of the above reaction.
In this case the catalytic influence of the adsorbents
(Chemistry--Physical, TT, v. 5, no. 4) (over)

61-10201

- I. Anthracenes--Photochemical reactions
- I. Kortüm, G.
- II. Braun, W.

143,208

Office of Technical Services

Roedig, Alfred and Mirkel, Gottfried.
ON THE CONSTITUTION OF THE VARIOUS
 $C_5Cl_4O_2$ COMPOUNDS: CONCERNING THE PER-
CHLORO DERIVATIVES OF CYCLOPENTENE-
1-DIONE-3,5, PYRONE-2 AND PROTOANEMONIN.
[1960] [17]p. 43 refs.
Order from S.L.A. m\$2.40, ph\$3.30 61-10628

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 636 [no. 1/3] p. 1-18.

The preparation of the compounds $C_5Cl_4O_2$ named in
the title, which have long been known but incorrectly
identified, was improved and their structure defini-
tively proved by new reactions as well as by UV and
IR. Perchlorocyclopentene-1-dione-3,5 rearranged
under the influence of oleum into perchloroproto-
anemonin. As a common intermediate there appears,
on alkaline degradation of both compounds, 3H-estra-
chloropentene-2-one-4-ole acid. The perchloro-
pyrone-2 obtainable by thermal decomposition of
(Chemistry--Organic, TT, v. 5, no. 9) (over)

61-10628

1. Chlorine compounds
(Organic)--Molecular
structure
2. Cyclic compounds--
Synthesis
1. Roedig, A.
2. Mirkel, G.

151798

Office of Technical Services

Rieche, Alfred and Seeboth, Helmuth.
THE REACTIONS OF NAPTHOLS AND NAPHTHYL-
AMINES UNDER THE INFLUENCE OF HYDROGEN
SULFITE (BUCHERER REACTION). I. PROPERTIES
AND STRUCTURE OF INTERMEDIARIES OF THE
BUCHERER REACTION. [1961] 21p.

Order from SLA \$2.60

62-10047

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 638, p. 43-56.

DESCRIPTORS: *Naphthalenes, *Amines, *Naphthyl
radicals, *Hydrogen compounds, Sulfites, Chemical
reactions, Hydroxides, Sulfonic acids, Acids, Com-
plex compounds, Chemical properties, Crystal
structure.

(Chemistry--Organic, TT, v. 7, no. 6)

62-10047

- I. Title: Bucherer reactions
- I. Rieche, A.
- II. Seeboth, H.
- III. Title: Properties...

Office of Technical Services

62-10039

Rieche, Alfred and Seeboth, Helmut.
REACTIONS OF NAPHTHOLS AND NAPHTHYL-
AMINES UNDER THE INFLUENCE OF HYDROGEN
SULFITE. (BUCHERER REACTION). II. m-TETRALIN
SULFONIC ACIDS AS INTERMEDIARIES OF THE
BUCHERER REACTION. [1961] 16p.
Order from SLA \$1.60

62-10039

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 638, p. 57-66.

DESCRIPTORS: *Naphthalenes, *Amines, *Naphthyl
radicals, Hydrogen compounds, Sulfites, Chemical
reactions, Hydroxides, *Sulfonic acids, Acids,
Complex compounds.

See also 62-10047

(Chemistry--Organic, TT, v. 7, no. 6)

- I. Title: Bucherer reactions
- I. Rieche, A.
- II. Seeboth, H.
- III. Title: m-tetralin...

Office of Technical Services

62-10038

Rieche, Alfred and Seeboth, Helmuth.
REACTIONS OF NAPHTHOLS AND NAPHTHYL-
AMINES UNDER THE INFLUENCE OF HYDROGEN
SULFITE (BUCHERER REACTION). III. THE
MECHANISM OF THE BUCHERER REACTION.
[1961] 14p.

Order from SLA \$1.60

62-10038

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 638, p. 66-75.

DESCRIPTORS: *Naphthalenes, *Amines, *Naphthyl
radicals, Hydrogen compounds, Sulfites, Chemical
reactions, Reaction kinetics.

See also 62-10039

(Chemistry--Organic, TT, v. 7, no. 5)

- I. Title; Bucherer reactions
- I. Rieche, A.
- II. Seeboth, H.
- III. Title; Mechanism...

Office of Technical Services

62-10037

Rieche, Alfred and Seeboth, Helmut.
REACTIONS OF NAPHTHOLS AND NAPHTHYL-
AMINES UNDER THE INFLUENCE OF HYDROGEN
SULFITE. (BUCHERER REACTION). IV. THE
ADDITION COMPOUND OF B-NAPHTHOL AND
NaHSO₃. [1961] 8p.
Order from SLA \$1.10 62-10037

Trans. of [Justus Liebig's] Annalen der Chemie
(West Germany) 1960, v. 638, p. 76-81.

DESCRIPTORS: *Naphthalenes, *Amines, *Naphthyl
radicals, *Hydrogen compounds, Sulfites, Chemical
reactions, *Sodium compounds, Complex compounds.

See also 62-10038

(Chemistry--Organic, TT, v. 7, no. 5D

- I. Rieche, A.
- II. Seeboth, H.
- III. Title: Addition...

Office of Technical Services

TT-65-12420

Field 7C

Haaf, W.; Koch, H.
SYNTHESIS OF CARBOXYLIC ACIDS FROM PARAFFINS
THROUGH HYDRIDE TRANSFER. 13p, 15refs.
Order from SLA: \$1.60 as TT-65-12420

Trans. of Justus Liebig's Annalen der Chemie (West
Germany) 463B n1-3 p122-35 1960.
Another trans. is available from ATS \$19.50 as
ATS-58Q67G, 15p.

I. Haaf, W.
H. Koch, H.

MR 632

ANNALES DE CHIMIE
1960 S13 Vb P645-706

70-10292-07C

order from NTC

TT-65-11981

Field 7C

Klug, H.
TETRACHLOROSUCCINIC ACID AND DERIVATIVES.
I - III. TETRACHLOROSUCCINIC ACID AND DERIVATIVES
BY CHLORINATION OF GAMMA-LACTONES OR GAMMA-
LACTAMS. 37p. 30refs.
Order from SLA: \$3.60 as TT-65-11981

Trans. of Justus Liebig's Annalen der Chemie (West
Germany) v677 n1 p67-83 1964.

I. Klug, H.
II. Title: Tetrachlorosuccinic ...

MR 622

Polymembered Ring Systems: V(l) Formation
Tendency of Cyclic Compounds,, by K. Ziegler,
R. Aurnhammer, 32 pp.
GERMAN, per, Annalen der Chemie, No 513,
1964, pp 1934-1943.
Patent Office

Sci - Chem
Jan 65

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Concerning a New Acid Related to the Picric Acid
(Trinitrophenol), by Rudolph Bottger, Heinrich
Will, 31 pp.

GERMAN, RPT, Ann Chem Phys, Vol LVIII, 1846,
pp 273-300.

ABC SCL-T-252

Sci - Chem

Rep 79

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Order from DTC

ANNALES DE CHIMIE ET DE PHYSIQUE
1836 S2 V62 P55-76 70-23659 (*)

LAROQUE, M.F. On the gyratory motion of a liquid flowing through a thin wall circular orifice in the centre of the circular base of a cylindrical vessel.

Annls Chim.Phys. 61:345-55 (1861); 67:484-93 (1863)
(CRL/D. 875)

Technical Problems in Lung Transplantation, by
A.H. B. De Bono, 5 pp.
FRENCH, per, Ann Chir Thor Ca. Vol V,
1966, pp 510-514.
Dept of Navy 5376/MMS No 2011.

Sci-MAM
May 67

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Analysis of Conditions of Industrial Control
of Activity of a Preparation of Sodium
Dehydrocholate on the Biliary Flow of the
Rabbit, by J. Salesse, 13pp.
FRENCH, per, Annales Pharm Franc, Vol 12,
No 3, 1954, pp 193-203.
CFSTI TT-64-20007.

322,292

Sci - B & M
Mar 67

63-16082

I. Gallo, G.

Gallo, G.
PROCESS FOR THE PRODUCTION OF ALKALINE
POTASSIUM AND SODIUM HYDROXIDES FROM THE
CORRESPONDING SULFATES. [1963] 13p. 8 refs.
Order from SLA \$1.60 63-16082

Trans. of [Annali di Chimica] (Italy) 1935, v. 25,
p. 620-628.

DESCRIPTORS: *Sulfates, *Hydroxides, *Sodium
compounds, *Potassium, *Alkali metals, Production,
Processing.

(Engineering--Chemical, TT, v. 10, no. 9)

Office of Technical Services

60-18119

Ubalini, Ivo and Giarocchi, J.
INVESTIGATIONS ON THE FORMATION OF SOLU-
BLE PHOSPHORIC ANHYDRIDE IN THE TREAT-
MENT OF PHOSPHORITES AND TRICALCIUM
PHOSPHATE WITH HUMIC LIGNITES. [1960] 13p.
10 refs.
Order from SLA m\$2.40, ph\$3.30 60-18119

Trans. of Annali di Chimica (Italy) 1938, v. 28,
p. 69-77.

148,468

1. Soils--Chemical analysis
 2. Phosphates--Chemical reactions
 3. Phosphites--Chemical reactions
 4. Humic acids--Chemical reactions
- I. Ubalini, I.
 - II. Giarocchi, J.

Office of Technical Services

(Unannounced)

63-16080

Centola, G.
CONTRIBUTION TO THE STUDY OF THE EFFECT
OF ALKALINE SULFIDES UPON CELLULOSE. [1963]
8p. 12 refs.
Order from SLA \$1.10

63-16080

Trans. of [Annali di Chimica] (Italy) 1941, v. 31,
p. 20-24.

DESCRIPTORS: *Cellulose, *Sulfides, *Alkali
metals, Crystal structure.

I. Centola, G.

(Chemistry--Physical, TT, v. 10, no. 9)

Office of Technical Services

On the Titration of Nicotine and a New Indirect
Method of Volumetric Determination, by Giovanni
Mannelli.

ITALIAN, per, Annali di Chimica, 1941, Vol. 31,
pp. 68-73.

K-H-1904 a

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Aug 66

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63-20248

Covelle, Marie.
PREPARATION OF 3-AND 5-IODOSALICYLIC ACIDS,
CRYPTOTOXIC POWER AND PHARMACOLOGICAL
CHARACTERISTICS. [1963] 12p (formulae omitted)
21refs

Order from SLA \$1.60

63-20248

Partial trans. (p. 235-245) of [Annali di Chimica]
(Italy) [1941] v. 31, p. 235-[254].

DESCRIPTORS: Drugs, Antigens and antibodies,
*Toxins and antitoxins, *Iodides, *Salicylic acids,
*Biological assay, Antibiotics.

1. Title: Cryptotoxic index
I. Covelle, M.

(Biological Sciences--Pharmacology, TT, v. 10, no. 12)

Office of Technical Services

Chromatographic Separation of Tannic Acids from Their
Derivatives, by Giovio Bruto Crippa, Silvio Maffei,
5 pp.

ITALIAN, per, Annali de Chimica, Vol XXII, No 10,
1941, pp 453-456.

SLA 60-10536

Sci
Jun 60
Vol III, No 5

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61-12788

Cavallaro, L., and Indelli, A.
THE INHIBITING ACTION OF SODIUM METAPHOS-
PHATE ON PRECIPITATION PROCESSES. I. MEAS-
UREMENTS ON BaCO_3 , CaCO_3 and SrCO_3 . [1960] 8p.
Order from ATS \$14.95 ATS-71M471

Trans. of Annali di Chimica, (Italy) [1950] v. 40,
p. 195-204.

151567

1. Carbonates--Precipitation
2. Precipitation--
Inhibition
3. Phosphates--Chemical
effects
1. Cavallaro, L.
- II. Indelli, A.
- III. Title: Measurements...
- IV. ATS-71M471
- V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

(Chemistry--Inorganic, TT, v. 5, no. 8)

62-17662

Bianchi, G.
RESEARCH ON THE STRUCTURE OF CATHODIC
PLATINUM BLACK DEPOSITS. [1962] 10p.
Order from ATS \$11.95 ATS-45P611

Trans. of Ann[ali di] Chim[ica] (Italy) 1950, v. 40,
p. 222-233.

DESCRIPTORS: *Cathodes, *Platinum, Deposits,
Electrodeposition.

(Chemistry--Physical, TT, v. 8, no. 4)

- I. Bianchi, G.
II. ATS-45P611
III. Associated Technical Services,
Inc., East Orange, N. J.

ATS/988-IJ

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Gallo, G. and Guerra, M. del.
THE ACTION OF HYDROGEN ON THE METALLIC
OXIDES AND SULFIDES, NOTE VI. [1963] [12]p.
10 refs.
Order from SLA \$1.60.

63-16843

Trans. of Ann[ali di] Chimica (Italy) 1951, v. 41,
p. 51-60.

DESCRIPTORS: *Ores (Metal sources), *Cadmium com-
pounds, *Bismuth compounds, *Ti compounds, *Lead
compounds, *Zinc compounds, *Manganese compounds,
*Cobalt compounds, *Nickel compounds, *Silver com-
pounds, Oxides, Sulfides, Reduction, Desulfurization,
*Hydrogen.

(Chemistry--Inorganic, TT, v. 10, no. 7)

63-16843

I. Gallo, G.
II. Guerra, M. del

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62-17874

Cerniani, Aldo.
THE THERMAL DECOMPOSITION OF STARCH.
[1962] 14p.
Order from K-H \$18.00 K-H 6255-b

Trans. of Annali di Chimica (Italy) 1951, v. 41,
p. 293-308.

DESCRIPTORS: *Starches, Pyrolysis.

- I. Cerniani, A.
- II. K-H-6255-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Biological Sciences--Biochemistry, TT, v. 8, no.4)

Office of Technical Services

62-34236

Constatinides, Giorgio.
AUTOCOMBUSTION TEMPERATURE OF MONOSAC-
CHARIDES AND OLIGOSACCHARIDE POWDERS.
[1962] 17p.
Order from K-H \$21.25 K-H 6196-b

Trans. of Annali di Chimica (Italy) 1951, v. 41,
p. 309-319.

DESCRIPTORS: *Saccharides, Powders, Combustion.

(Chemical--Physical, TT, v. 9, no. 1)

- I. Constatinides, G.
- II. K-H-6196-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Cerniani, Ado.
COMPARATIVE THERMAL DECOMPOSITION OF
SOME MONOSACCHARIDES, OLIGOSACCHARIDES
AND POLYSACCHARIDES. [1962] 10p.
Order from K-H \$12.00 K-H 5876-a

(B1.60) SLA 63-16350
Trans. of Annali di Chimica (Italy) 1951, v. 41,
p. 455-464.

DESCRIPTORS: *Saccharides, Pyrolysis.

(Biological Sciences--Biochemistry, TT, v. 8, no. 4)

62-17873

63-16350

- I. Cerniani, A.
- II. K-H-5876-a
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

viscosity of Polymetaphosphate Solutions in
the Presence of Salt, by Guido Saini, 12 pp.

ITALIAN, per, Annali di Chimica, Vol XLII,
1952, pp 227-238.

SLA 60-23421

Vol V, No 5
Jul 61

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On Some Intermetallic Compounds of Uranium With
Elements of Groups III and IV, by Aldo Iandelli,
Riccardo Ferro, 16 pp.

ITALIAN, per, Ann Chim (Rome), Vol XLII, 1952,
pp 598-606.

ABC NP Tr-555

Sci - Chem
2 May 61

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AEC. (MLM-1878(TR)) STABILITY OF MIXTURES CON-
TAINING PENTRITE AND T₄. di Cerrione, A. Translated for
Mound Lab., Miamisburg, Ohio, from Ann. Chim. (Rome); 43:
525-34(1953). 15p. Dep. NTIS.

chemistry (physical); translations 07D

MN-4 P NSA

Effective Valence of Antimony in Halogen
Hypoantimonates. I Research on $(\text{NH}_4)_2\text{SbBr}_6$
and Rb_2SbCl_6 with the Use of Radioactive
Antimony, by A. Turco, L. Mazzoni.
ITALIAN, per, Annali di Chimica, Vol 43,
1953, 853-64.
SLA TT-66-11039

Sci - Chem
Jul 67

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Effective Balance of Antimony in Halogen
Hypoantimonates. II Research on $n(\text{NH}_4)_2\text{SbCl}_6 \cdot n$ -
 $(\text{NH}_4)_2\text{SbCl}_6$ with the Use of Radioactive
Antimony, by A. Turco, G. Sordillo.
ITALIAN, per, Annali di Chimica, Vol 43,
1953, pp 865-72.
SLA TT-66-11038

Sci - Chem
Jul 67

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Mayer, Aldo.
PREPARATION OF ALLOYS BY THE ACTION OF
METALS ON FUSED SALTS, NOTE II. [1963] 9p.
Order from K-H \$9.00 K-H 3737 c

Trans. of Annali di Chimica (Italy) 1954, v. 44,
p. 299-304.

DESCRIPTORS: *Alloys, *Metals, Salts, *Fused
materials, Preparation.

(Chemistry--Inorganic, TT, v. 10, no. 2)

63-17272

- I. Mayer, A.
- II. K-H-3737-c
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

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The Polarographic Behavior of Cystamine Disulfoxide,
h. A. Liberti, C. Biondi , 8 pp.

ITALIAN, per, ⁿAm Chim, Vol XLIV, 1954, pp 443-
453.

Assoc Tech Serv 751101

Jul 58

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Effective Valence of Antimony in Halogen
Hypoantimonates. III. Research on
 $\text{Hb}_2(\text{Sb}, \text{Sn})\text{Cl}_4$, by A. Turco, G. Sordillo.
ITALIAN, per, Annali di Chimica, Vol 45,
1955, pp 614-7.
SLA TT-77-11033

327, 332

Sci - Chem
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The Probable Mechanism of the ~~Karl~~ Karl Fischer
Method of Titration - Modification of the Reagent
and Method, by E. Bonauguri, G. Siniga, 12 pp.

ITALIAN, per, Annali di Chimica, Vol XLV,
No 9/10, 1955, pp 805-817.

CIA/Z-259

Sci - Physics
Mar 57 CTS/dex

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On Some Structural Peculiarities of Organo-
Phosphorus Compounds, by M. Serra, P. Malatesta,
10 pp.

ITALIAN, no per, Annali RE di Chimica, Vol XLV,
1955, pp 911-917.

NIH Tr No 12-13

Sci - Chemistry
Feb 1957 CTS/cax

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63-14706

Lardera, M. R., Cernia, E., and Mori, A.
DETERMINATION OF VINYL ACETATE IN MIXED
POLYMERS OF VINYL CHLORIDE AND VINYL
ACETATE. [1963] 4p. 2 refs.
Order from SLA \$1.10

63-14706

Trans. of Annali (di) Chimica (Italy) 1956, v. 46,
p. 194-198.

DESCRIPTORS: *Polyvinyl chloride, *Vinyl radicals,
*Acetates, Mixtures, Chemical analysis, Reagents,
Ethylenes, Dioxides, Sodium compounds, Ethanol,
Hydrates, Silver compounds, Sulfates, Sulfuric acid.

The authors discuss a generalized method of saponifi-
cation to determine the percentage of vinyl chloride in
mixed polymers of vinyl chloride and vinyl acetate. All
the methods heretofore used and which lead to reproduc-
ible results for mixed polymers produced by solution or
(Chemistry--Analytical, TT, v. 10, no. 6) (over)

I. Lardera, M. R.
II. Cernia, E.
III. Mori, A.

Office of Technical Services

The Isomeric Transformation of Urea in Aqueous
Solution, by Orfeo Turno Rotini and Goffredo
Lotti,
ITALIAN, per. Annali di Chimica, Vol 46, 1956,
pp. 440-450,
ONI 2439
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62-17614

Scarpati, Maria Luisa; Oriente, Giovanna; and
Panizzi, Luigi.

ON THE CAFFEIC CONSTITUENTS IN THE
ARTICHOKE. [1962] 5p.

Order from K-H \$6.25

K-H-10216

Trans. from [Annali di Chimica] (Italy) 1957, v. 47,
no. 2.

DESCRIPTORS: *Caffeic acid, Plants, Chemical
analysis.

(Chemistry--Analytical, TT, v. 9, no. 7)

- I. Title: Artichokes
- I. Scarpati, M. L.
- II. Oriente, G.
- III. Panizzi, L.
- IV. K-H-10216
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

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Further Examples of Reductions With
Hydrazine and Catalysts, by Silvio, 10 *pgs*

ITALIAN, per, Annali di Chimica,
Vol XLVII, 1957, pp 410-414.

SLA 60-18056

Sci

Feb 62

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order from NTC

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1963 V53 P883-893	ONAL-TR-1819

The Degredation and Structure of Nylon 66, by G.
Prati.

ITALIAN, per, Ann Chim, Vol XLVIII, No 1, 1958,
pp 15-33.

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Sci - Chemistry
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Synthesis of a Few ALUMINUM-ALKYL Compounds Labeled
With C , by Gastone Pajaro, 9 pp.

ITALIAN, per, Ann di Chim, Vol XLVIII, No 2, 1958,
pp 193-197.

SIA 59-15006

Sci
Dec 59
Vol 2, No 5

103 517

Potentiometric Analyses of Alkyl Aluminum Compounds,
by M. Farina, M. Donati, M. Ragazzini, 12 pp.

ITALIAN, per, Annali di Chimica, Vol XXXVIII,
No 6/7, 1958, pp 501-509.

SLA 60-14148

Sci

K-H 85 49

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Sep 61

Vol III, No 9

Sensitisation of Gelatin Dynamites by Means of
Inert Additives, by L. Avogadro, 8 pp.

ITALIAN, per, Ann Chim (Rome), Vol XLIX, 1959,
pp 352-357.

AEC AWRIS-Trans-11

Sci - Chem
9 Mar 61

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Moraglio, G. and Danusso, F.
VISCOMETRY OF POLYPROPYLENE IN SOLUTION.
Rept. from National Chemical Congress (no. 8) [held
at] Torino 27 May-2 June 58. [1961] [14]p. 1 ref.
Order from SLA \$1.60 61-18710

Trans. of Ann[ali di] Chim[ica] (Italy) 1959, 49,
p. 902-910.

DESCRIPTORS: Viscosity. *Propenes, Solutions.
*Polymers, Synthesis, Viscosimeters.

The viscometry of polypropylene solutions shows
normal values and course for polymers obtained di-
rectly by synthesis. Hence, by fractionation of raw
specimens, polymers of rather high intrinsic viscosity
can be separated, for which deviations from Newtonian
behavior could be found. The influence of shear rate on
the viscosity of polypropylene fractions in dilute solu-
tion has been studied. For this purpose, a viscometer
(Materials--Plastics, TT, v. 6, no. 10) (over)

61-18710

I. Moraglio, G.
II. Danusso, F.
III. Title: National...

187281

Office of Technical Services

62-16445

Sbrolli, Walter and Bertotti, Elvio.
MEASUREMENT OF THE PHOTOCHEMICAL ACTIVITY OF TITANIUM DIOXIDE. Communication to the National Congress of Chemistry (no. 8) Turin, 27 May-2 June 58. [1962] 10p. (8 figs. omitted) 9 refs.
Order from SLA \$1.10 62-16445

Trans. of Annali di Chimica (Italy) 1959, v. 49,
p. 1143-1154.

DESCRIPTORS: *Titanium compounds, *Dioxides,
Silver compounds, Nitrates, Photochemical reactions,
Oxidation, Ultraviolet radiation, *Photochemistry.

A method is described for measuring the photochemical activity of titanium dioxide, based on the oxidizing action thereof on the Ag^{+} ion when it is subjected to ultraviolet radiation. The reaction is observed by measuring the loss of reflectance as a function of time
(Chemistry--Physical, TT, v. 8, no. 9) (over)

- I. Sbrolli, W.
- II. Bertotti, E.
- III. Title: National...

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Cultrera, Rolando and Ferrari, Giovanni. PHOTOCHEMICAL SYNTHESIS OF AMINO ACIDS FROM INORGANIC NITROGEN COMPOUNDS AND TERNARY ORGANIC SUBSTANCES. [1960] [13]p. 25 refs. Order from SLA ml\$2.40, ph\$3.30 Trans. of <u>Annali di Chimica (Italy)</u> 1960, v. 49, p. 1639-1648].	60-18525 1. Amino acids--Synthesis 2. Photochemical reactions-- Analysis I. Cultrera, R. II. Ferrari, G. 142 163 Office of Technical Services
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Library--Organic, T.T. (v. 49, no. 2)

Lemetre, G. and Caprara, G.
PHENOL BY DIRECT OXIDATION OF BENZENE.
[1961] 14p.
Order from ATS \$16. 80

ATS-42N551

Trans. of Ann[ali di] Chim[ica] (Italy) 1960, v. 50,
p. 83-98.

DESCRIPTORS: *Phenols, *Benzenes, Oxidation,
Chemical reactions.

(Chemistry--Organic, TT, v. 7, no. 2)

61-25695

- I. Lemetre, G.
- II. Caprara, G.
- III. ATS-42N551
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS/752-IJ

Office of Technical Services